Abstract of the Disclosure:

A circuit and a method determine at least one electrical characteristic variable for an integrated circuit. Two or more successively produced states of a reference signal are recorded and counted in a first recording unit to produce an 5 output voltage in a voltage generator circuit for the integrated circuit, and the number of detected states is stored. Furthermore, a time duration within which the states of the reference signal are recorded is recorded in a second 10 recording unit. The numerical values are output via an output circuit for determining the electrical characteristic variable. At least one electrical characteristic variable such as a voltage, current and/or power value for the integrated circuit, is calculated from the number of 15 successively recorded states of the reference signal and from the time duration. It is therefore possible to obtain accurate values relating to the operation of the integrated circuit with comparatively little complexity.

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